



## INFORMATION DISCLOSURE STATEMENT

Applicant : David L. Hagen et al.  
App. No. : 10/763,057  
Filed : January 22, 2004  
For : THERMODYNAMIC CYCLES  
USING LIQUID DILUENT  
Examiner : Unknown  
Group Art Unit : 3745

I hereby certify that this correspondence and all marked attachments are being deposited with the United States Postal Service as first-class mail in an envelope addressed to: United States Patent and Trademark Office, PO Box 1450, Alexandria, VA 22313-1450, on

5-21-04

(Date)  
  
Rabinder N. Narula, Reg. No. 53,371

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Enclosed is form PTO-1449 listing 43 references. Copies of disclosed U.S. patents and/or publications are not included pursuant to PTO waiver of the requirement under 37 C.F.R. § 1.98(a)(2)(i) for applications filed after June 30, 2003. Copies of other references, if listed, are enclosed.

This Information Disclosure Statement is being filed before the receipt of a first Office Action on the merits, and presumably no fee is required in accordance with 37 C.F.R. § 1.97(b)(3). If a first Office Action on the merits was mailed before the mailing date of this Statement, the Commissioner is authorized to charge the fee set forth in 37 C.F.R. § 1.17(p) to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated:

5-21-04

By:

Rabinder N. Narula  
Registration No. 53,371  
Attorney of Record  
Customer No. 20,995  
(949) 760-0404

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
VAST.003AAPPLICATION NO.  
10/763,057INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT

(USE SEVERAL SHEETS IF NECESSARY)

APPLICANT  
David L. Hagen et al.FILING DATE  
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3754

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	1	2,678,531	05/18/54	Miller			
	2	2,678,532	05/18/54	Miller			
	3	2,869,324	01/20/59	Footte			
	4	3,238,719	03/08/66	Harslem			
	5	3,651,641	03/28/72	Ginter			
	6	3,657,879	04/25/72	Ewbank et al.			
	7	3,696,795	10/10/72	Smith et al.			
	8	4,128,994	12/12/78	Cheng			
	9	4,248,039	02/03/81	Cheng			
	10	4,483,137	11/20/84	Faulkner et al.			
	11	4,491,093	01/01/85	Hoekstra			
	12	4,509,324	04/09/85	Urbach et al.			
	13	4,522,024	06/11/85	Zaugg			
	14	4,753,068	06/28/88	El-Masri			
	15	4,841,721	06/27/89	Patton et al.			
	16	4,928,478	05/29/90	Maslak			
	17	5,050,375	09/24/91	Dickinson			
	18	5,175,995	01/05/93	Pak et al.			
	19	5,271,215	12/21/93	Guillet			
	20	5,617,716	04/08/97	Schreiber			
	21	5,627,719	05/06/97	Gaston			
	22	5,680,764	10/28/97	Viteri			
	23	5,743,080	04/28/98	Ginter			
	24	5,771,678	06/30/98	Shouman			
	25	6,089,024	07/18/00	Hatanaka			
	26	6,289,666	09/18/01	Ginter			
	27	6,293,086	09/25/01	Reynolds			

EXAMINER

DATE CONSIDERED

\*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	28	6,370,862	04/16/02	Cheng			
	29	6,418,724	07/16/02	Cheng			
	30	6,564,556	05/20/03	Ginter			

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	31	EP 0444013 A1	08/28/91	Europe				
	32	EP 0505263 A1	09/23/92	Europe				
	33	WO 0190548 A1	11/29/01	WO				
	34	IT 1256878	12/27/95	Italy				

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
	35	Blanco et al., "Water Recovery Systems for Steam Injected Gas Turbines: An Economic Analysis", Proceedings of ECOS 2002, July 3-5, Berlin, Germany.
	36	Bathie, W., "Fundamentals of Gas Turbines", 1996, p 139.
	37	Boyce, M., "Handbook for Cogeneration and Combine Cycle Power Plants", 2002, p 62.
	38	Granovski et al., "Simulation of Temperature Field Redistribution through multistage cooled turbines", Paper 2001-GT-0576, ASME Turbo Expo. 2001 June 4-7, 2001, New Orleans.
	39	Lefebvre, A., "Gas Turbine Combustion", 1998, section 5-7-3 (pp.150-151); p337 (on CO vs. NOx).
	40	Malecki et al., "Application of and Advanced CFD-Based Analysis System to the PW600 Combustor to Optimize Exit Temperature Distribution - Part 1: Description and Validation of the Analysis Tool", 2001.
	41	Moore et al., "GE Power Systems; Gas Turbine Emissions and Control", 2001, p 18.
	42	SPE "Mashproekt", "Aquarius Cycle", <a href="http://www.mashproekt.nikolaev.ua/common.htm">http://www.mashproekt.nikolaev.ua/common.htm</a>
	43	Travers, A., "Thermoeconomic Analysis of STIG, RWO and HAT Cycles with Carbon Dioxide (CO2) Emission Penalty", Masters Thesis of Thermochemical Power Group of the University of Genoa Faculty of Engineering, 2000.

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052004

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EXAMINER	DATE CONSIDERED
*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.	